ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: M117902 Client: Alaskan Copper Works Date Received: 11/01/07 Project: PO M117902, F&BI 711025 Date Extracted: 11/01/07 Lab ID: 711025-01 x10 Date Analyzed: 11/01/07 Data File: 711025-01 x10.065 Matrix: Instrument: ICPMS1 Water Units: ug/L (ppb) Operator: BTB

Lower Upper Internal Standard: % Recovery: Limit: Limit: Germanium 110 60 125

Concentration
Analyte: ug/L (ppb)

Chromium 939
Nickel 786
Copper 419
Zinc 11.9

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID: Method Blank Client: Alaskan Copper Works Date Received: Not Applicable Project: PO M117902, F&BI 711025 11/01/07 Lab ID: I7-399 mb Date Extracted: 11/01/07 Date Analyzed: Data File: 17-399 mb.050 Matrix: Water Instrument: ICPMS1 Units: BTB ug/L (ppb) Operator:

Internal Standard: % Recovery: Limit: Limit: Germanium 106 60 125

Concentration
Analyte: ug/L (ppb)

Chromium <1
Nickel <1
Copper <1
Zinc <1

ENVIRONMENTAL CHEMISTS

Date of Report: 11/06/07 Date Received: 11/01/07

Project: PO M117902, F&BI 711025

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 710410-01 (Duplicate)

			Sample	The second second		Acceptance	
1.0	Analyte	Reporting Units	Result	Result	Difference	Criteria	_
á	Chromium	ug/L (ppb)	2.21	2.04	8	0-20	
	Nickel	ug/L (ppb)	5.93	5.46	8	0-20	
	Copper	ug/L (ppb)	2.40	2.18	10	0-20	
	Zinc	ug/L (ppb)	2.91	2.74	6	0-20	

Laboratory Code: 710410-01 (Matrix Spike)

		Spike	Sample	Percen Recover		ce
Analyte	Reporting Units	Level	Result	MS	Criteria	
Chromium	ug/L (ppb)	20	2.21	102	50-150	
Nickel	ug/L (ppb)	20	5.93	88 b	50-150	
Copper	ug/L (ppb)	20	2.40	87	50-150	
Zinc	ug/L (ppb)	50	2.91	81	50-150	

Laboratory Code: Laboratory Control Sample

	Percent Spike Recovery Accep								
Analyte	Reporting Uni	ts Level	LCS	Criteria					
Chromium	ug/L (ppb)	20	117	70-130					
Nickel	ug/L (ppb)	20	99	70-130					
Copper	ug/L (ppb)	20	103	70-130					
Zinc	ug/L (ppb)	50	84	70-130					

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Data Qualifiers & Definitions

- a The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- A1 More than one compound of similar molecule structure was identified with equal probablility.
- b The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.
- c. The presence of the analyte indicated may be due to carryover from previous sample injections.
- d The sample was diluted. Detection limits may be raised due to dilution.
- ds The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.
- dv Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.
- fb The analyte indicated was found in the method blank. The result should be considered an estimate.
- fc The compound is a common laboratory and field contaminant.
- fp Compounds in the sample matrix interfered with quantitation of the analyte. The reported concentration may be a false positive.
- hr The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.
- ht The sample was extracted outside of holding time. Results should be considered estimates.
- ip Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j The result is below normal reporting limits. The value reported is an estimate.
- J The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.
- jl The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.
- jr The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.
- lc The presence of the compound indicated is likely due to laboratory contamination.
- L The reported concentration was generated from a library search.
- nm The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.
- pc The sample was received in a container not approved by the method. The value reported should be considered an estimate.
- pr The sample was received with incorrect preservation. The value reported should be considered an estimate.
- ve The value reported exceeded the calibration range established for the analyte. The reported concentration should be considered an estimate.
- vo The value reported fell outside the control limits established for this analyte.
- x The pattern of peaks present is not indicative of diesel.
- y The pattern of peaks present is not indicative of motor oil.

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Ph. (206) 285-8282
Fax (206) 283-5044

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Received by:

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 6, 2007

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on November 1, 2007 from the Metro Self Monitor, PO M117902, F&BI 711025 project. There are 4 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michael Erdahl Project Manager

Enclosures ACU1106R.DOC

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Morrow, M.S. Yelena Aravkina, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S. 3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

November 6, 2007



INVOICE #07ACU1106-1

Accounts Payable Alaskan Copper Works 628 South Hanford Seattle, WA 98134

RE: Project PO M117902, F&BI 711025 - Results of testing requested by Gerry Thompson for material submitted on November 1, 2007.

FEDERAL TAX ID #(b) (6)